

IN THE CLAIMS

Please amend the claims as indicated below.

1. (previously amended) A contoured structural member, comprising:
an inner section containing a plurality of layers comprising a composite material or a metal-containing material;
an outer section containing a plurality of layers comprising a composite material or a metal-containing material;
at least one intermediate layer having a ribbed structure connecting the inner and the outer sections; and
a coating.
2. (original) The structural member of claim 1, wherein the structural member has a closed configuration.
3. (previously amended) The structural member of claim 1, wherein the inner section contains both a composite material and a metal-containing material.
4. (previously amended) The structural member of claim 1, wherein the outer section contains both a composite material and a metal-containing material.
5. (previously amended) The structural member of claim 1, wherein the coating is located on the outer surface of the structural member, the inner surface of the structural member, or both.
6. (previously amended) The structural member of claim 1, wherein the coating is located between the inner section and the at least one intermediate layer, between the outer section and the at least one intermediate layer, or both.
7. (previously amended) The structural member of claim 1, wherein the coating is incorporated within the inner section, within the at least one intermediate layer, within the outer section, or any combination thereof.
8. (previously amended) The structural member of claim 1, wherein the coating modifies the friction, magnetic, chemical properties, or conductivity properties of the inner section, the at least one intermediate layer, the outer section, or any combination thereof.

9. (previously amended) The structural member of claim 1, wherein the coating comprises polytetrafluoroethylene.

10. (original) The structural member of claim 1, wherein the ribbed structure of the at least one intermediate layer comprises a honeycomb structure.

11. (original) The structural member of claim 1, further comprising at least one initiator.

12. (original) The structural member of claim 1, wherein the composite material is a reinforced resin matrix material.

13. (original) The structural member of claim 12, wherein reinforced resin matrix material comprises at least one prepreg ply.

14. (previously amended) The structural member of claim 1, wherein both the inner and the outer sections comprise a composite material.

15. (previously amended) The structural member of claim 1, wherein both the inner and the outer sections comprise a metal-containing material.

16. (previously amended) The structural member of claim 1, wherein the inner section comprises a composite material and the outer section comprises a metal-containing material.

17. (previously amended) The structural member of claim 1, wherein the inner section comprises a metal-containing material and the outer section comprises a composite material.

18. (previously amended) A contoured structural member, comprising:
an inner section containing a plurality of layers comprising a composite material or a metal-containing material;

an outer section containing a plurality of layers comprising a composite material or a metal-containing material;

at least one intermediate layer having a honeycomb structure connecting the inner and the outer sections; and

a coating modifying the friction, magnetic, chemical resistance, or conductivity properties of the inner section, the at least one intermediate layer, the outer section, or any combination thereof.

19. (previously amended) A closed, contoured structural member, comprising:
an inner section containing a plurality of layers comprising a composite material or a metal-containing material;

an outer section containing a plurality of layers comprising a composite material or a metal-containing material;

at least one intermediate layer having a honeycomb structure connecting the inner and the outer sections; and

a coating modifying the friction, magnetic, chemical resistance, or conductivity properties of the inner section, the at least one intermediate layer, the outer section, or any combination thereof.

20. (previously amended) A closed, contoured structural member, comprising:

an inner section containing a plurality of layers comprising a composite material or a metal-containing material;

an outer section containing a plurality of layers comprising a composite material or a metal-containing material;

at least one intermediate layer having a honeycomb structure being substantially contiguous with the inner section and the outer section; and

a coating modifying the friction, magnetic, chemical resistance, or conductivity properties of the inner section, the at least one intermediate layer, the outer section, or any combination thereof.

21. – 35 (withdrawn)

36. (currently amended) A contoured structural member made by the method comprising:

providing at least one inner layer comprising a composite material or a metal-containing material;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ~~ribbed~~ honeycomb core structure;

providing at least one outer layer over the at least one intermediate layer, the at least one outer layer comprising a composite material or a metal-containing material;

connecting the at least one inner and outer layer to the at least one intermediate layer;

providing a coating in or on the at least one inner layer, the at least one intermediate layer, or the at least one outer layer.

37. (currently amended) A contoured structural member made by the method comprising:

roll wrapping at least one inner layer comprising a composite material or a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ~~ribbed~~ honeycomb core structure; and

roll wrapping at least one outer layer covering the at least one intermediate layer, the at least one outer layer comprising a composite material or a metal-containing material;

providing a coating in or on the at least one inner layer, the at least one intermediate layer, or the at least one outer layer;

connecting the at least one inner and outer layer to the at least one intermediate layer; and removing the substrate.

38. (currently amended) A contoured structural member made by the method comprising:

roll wrapping at least one inner layer comprising a composite material or a metal-containing material over a substrate;

roll wrapping at least one intermediate layer over the at least one inner layer, the at least one intermediate layer having a ~~ribbed~~ honeycomb core structure; and

roll wrapping at least one outer layer covering the at least one intermediate layer, the at least one outer layer comprising a composite material or a metal-containing material;

providing a coating in or on the at least one inner layer, the at least one intermediate layer, or the at least one outer layer;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and removing the shrink-wrap material and the substrate.

39. (original) A contoured structural member made by the method comprising:

roll wrapping at least one inner layer comprising a composite material or a metal-containing material over a substrate;

roll wrapping at least one intermediate layer having a honeycomb structure to be substantially contiguous with the at least one inner layer; and

roll wrapping at least one outer layer to be substantially contiguous with the at least one intermediate layer, the at least one outer layer comprising a composite material or a metal-containing material;

providing a coating in or on the at least one inner layer, the at least one intermediate layer, or the at least one outer layer;

constraining the outer portion with a shrink-wrap material;

connecting the at least one inner and outer layer to the at least one intermediate layer; and
removing the shrink-wrap material and the substrate.